

## SEQUENCE LISTING

<110> Blaschuk, Orest W.  
Michaud, Stephanie Denise

<120> COMPOUNDS AND METHODS FOR MODULATING  
FUNCTIONS OF CLASSICAL CADHERINS

<130> 100086.415

<140> US

<141> 2003-11-14

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<223> Consensus sequence found in certain atypical  
cadherin Trp-containing CAR sequences.

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<223> Xaa = Asp or Glu

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<223> Xaa = Ile, Val or Met

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Leu Asp Arg Glu  
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Glu Trp Ile Leu  
1

<210> 106  
<211> 4  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 106  
Glu Trp Leu Leu  
1

<210> 107  
<211> 5  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 107  
Asp Trp Val Leu Pro  
1 5

<210> 108  
<211> 5  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 108  
Asp Trp Ile Leu Pro  
1 5

<210> 109  
<211> 5  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 109  
Asp Trp Leu Leu Pro  
1 5

<210> 110  
<211> 5  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or

conservative analogues thereof

<400> 110

Glu Trp Val Leu Pro

1 5

<210> 111

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 111

Glu Trp Ile Leu Pro

1 5

<210> 112

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 112

Glu Trp Leu Leu Pro

1 5

<210> 113

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 113

Asp Trp Val Leu Ala

1 5

<210> 114

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 114

Asp Trp Ile Leu Ala  
1 5

<210> 115

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 115

Asp Trp Leu Leu Ala  
1 5

<210> 116

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 116

Glu Trp Val Leu Ala  
1 5

<210> 117

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 117

Glu Trp Ile Leu Ala  
1 5

<210> 118

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 118

Glu Trp Leu Leu Ala  
1 5

<210> 119

<211> 6

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 119

Asp Trp Val Leu Pro Pro  
1 5

<210> 120

<211> 6

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 120

Asp Trp Ile Leu Pro Pro  
1 5

<210> 121

<211> 6

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 121

Asp Trp Leu Leu Pro Pro  
1 5

<210> 122



<211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Exemplary Trp-containing CAR sequences or  
 conservative analogues thereof

<400> 122  
 Glu Trp Val Leu Pro Pro  
 1 5

<210> 123  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Exemplary Trp-containing CAR sequences or  
 conservative analogues thereof

<400> 123  
 Glu Trp Ile Leu Pro Pro  
 1 5

<210> 124  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Exemplary Trp-containing CAR sequences or  
 conservative analogues thereof

<400> 124  
 Glu Trp Leu Leu Pro Pro  
 1 5

<210> 125  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Exemplary Trp-containing CAR sequences or  
 conservative analogues thereof

<400> 125  
 Asp Trp Val Leu Ala Pro  
 1 5

<210> 126  
<211> 6  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 126  
Asp Trp Ile Leu Ala Pro  
1 5

<210> 127  
<211> 6  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 127  
Asp Trp Leu Leu Ala Pro  
1 5

<210> 128  
<211> 6  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 128  
Glu Trp Val Leu Ala Pro  
1 5

<210> 129  
<211> 6  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 129  
Glu Trp Ile Leu Ala Pro

1

5

&lt;210&gt; 130

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; UNKNOWN

&lt;220&gt;

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

&lt;400&gt; 130

Glu Trp Leu Leu Ala Pro

1

5

&lt;210&gt; 131

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; UNKNOWN

&lt;220&gt;

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

&lt;400&gt; 131

Trp Val Leu Pro

1

&lt;210&gt; 132

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; UNKNOWN

&lt;220&gt;

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

&lt;400&gt; 132

Trp Ile Leu Pro

1

&lt;210&gt; 133

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; UNKNOWN

&lt;220&gt;

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 133  
Trp Leu Leu Pro  
1

<210> 134  
<211> 4  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 134  
Trp Val Leu Ala  
1

<210> 135  
<211> 4  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 135  
Trp Ile Leu Ala  
1

<210> 136  
<211> 4  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 136  
Trp Leu Leu Ala  
1

<210> 137  
<211> 5  
<212> PRT  
<213> UNKNOWN

<220>  
<223> Exemplary Trp-containing CAR sequences or

conservative analogues thereof

<400> 137

Trp Val Leu Pro Pro  
1 5

<210> 138

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 138

Trp Ile Leu Pro Pro  
1 5

<210> 139

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 139

Trp Leu Leu Pro Pro  
1 5

<210> 140

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 140

Trp Val Leu Ala Pro  
1 5

<210> 141

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 141

Trp Ile Leu Ala Pro  
1 5

<210> 142

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Exemplary Trp-containing CAR sequences or  
conservative analogues thereof

<400> 142

Trp Leu Leu Ala Pro  
1 5

<210> 143

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Modulating agent

<400> 143

Asp Trp Val Val Ala  
1 5

<210> 144

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Modulating agent

<400> 144

Glu Trp Val Met Pro  
1 5

<210> 145

<211> 5

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<400> 145

Tyr Ile Gly Ser Arg  
1 5

<210> 146

<211> 10

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<400> 146

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu  
1 5 10

<210> 147

<211> 9

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<400> 147

Ser Phe Thr Ile Asp Pro Lys Ser Gly  
1 5

<210> 148

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<400> 148

Leu Tyr His Tyr  
1

<210> 149

<211> 8

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<221> VARIANT

<222> 2

<223> Xaa = Lys or Arg

<221> VARIANT

<222> 3,4

<223> Xaa = any amino acid

<221> VARIANT

<222> 5

<223> Xaa = Ser or Ala

<221> VARIANT

<222> 6

<223> Xaa = Tyr or Phe

<221> VARIANT

<222> 7

<223> Xaa = any amino acid

<400> 149

Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly  
1 5

<210> 150

<211> 9

<212> PRT

<213> UNKNOWN

<220>

<223> Preferred CAR sequence for inclusion with a  
modulating agent

<221> VARIANT

<222> 1,3

<223> Xaa = any amino acid

<221> VARIANT

<222> 4

<223> Xaa = Ile, Leu or Val

<221> VARIANT

<222> 5

<223> Xaa = Asp, Asn or Glu

<221> VARIANT

<222> 6,7



<223> Xaa = any amino acid

<221> VARIANT

<222> 8

<223> Xaa= Ser, Thr or Asn

<400> 150

Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa Gly  
1 5

<210> 151

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Representative claudin CAR sequence

<400> 151

Ile Tyr Ser Tyr  
1

<210> 152

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Representative claudin CAR sequence

<400> 152

Thr Ser Ser Tyr  
1

<210> 153

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Representative claudin CAR sequence

<400> 153

Val Thr Ala Phe  
1

<210> 154

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Representative claudin CAR sequence

<400> 154

Val Ser Ala Phe

1

<210> 155

<211> 14

<212> PRT

<213> UNKNOWN

<220>

<223> Trp-containing CAR sequence that may be linked in tandem.

<400> 155

Cys Asp Trp Val Ile Pro Pro Asp Trp Val Ile Pro Pro Cys

1

5

10

<210> 156

<211> 14

<212> PRT

<213> UNKNOWN

<220>

<223> Trp-containing CAR sequence that may be linked in tandem.

<400> 156

Cys Asp Trp Val Ile Pro Pro Pro Pro Ile Val Trp Asp Cys

1

5

10

<210> 157

<211> 14

<212> PRT

<213> UNKNOWN

<220>

<223> Trp-containing CAR sequence that may be linked in tandem.

<400> 157

Cys Pro Pro Ile Val Trp Asp Asp Trp Val Ile Pro Pro Cys

1

5

10

<210> 158

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Sequence which is reacted with the carboxylic acid  
as a method of carbodiimide-mediated lactam  
formation.

<400> 158

Glu Asp Ala Cys

1

<210> 159

<211> 4

<212> PRT

<213> UNKNOWN

<220>

<223> Sequence which is reacted with the carboxylic acid  
as a method of carbodiimide-mediated lactam  
formation.

<400> 159

Asp Cys Cys Ile

1

<210> 160

<211> 48

<212> PRT

<213> UNKNOWN

<220>

<223> Occludin CAR sequence

<400> 160

Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln

1

5

10

15

Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu

20

25

30

Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu

35

40

45

<210> 161

<211> 6

<212> PRT

<213> UNKNOWN

<220>

<223> Trp-containing peptide

<400> 161

Ala Trp Val Ile Pro Pro

1 5

<210> 162  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Trp-containing peptide

<400> 162  
 Asp Trp Val Ile Ala Pro  
 1 5

<210> 163  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Trp-containing peptide

<400> 163  
 Asp Trp Val Ile Pro Ala  
 1 5

<210> 164  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Trp-containing peptide

<400> 164  
 Asp Trp Val Ala Pro Pro  
 1 5

<210> 165  
 <211> 6  
 <212> PRT  
 <213> UNKNOWN

<220>  
 <223> Trp-containing peptide

<400> 165  
 Pro Trp Val Ile Pro Pro  
 1 5

<210> 166  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Forward primer

<400> 166  
 tggtcgtgcc gctgcctcct cctcct

26

<210> 167  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer

<400> 167  
 tgccaaagcc tccagcaagc actgtgc

27

<210> 168  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Trp-containing CAR sequence

<221> VARIANT  
 <222> 1  
 <223> Xaa = Asp or Glu

<221> VARIANT  
 <222> 4  
 <223> Xaa = Ile, Val or Met

<221> VARIANT  
 <222> 5  
 <223> Xaa = Pro or Ala

<400> 168  
 Xaa Trp Val Xaa Xaa Pro  
 1 5

<210> 169  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 169

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Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1           5           10           15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
          20           25           30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
          35           40           45
Gly Ile Phe Ile Leu Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
          50           55           60
Pro Leu Asp Arg Glu Gln Ile Ala Arg Phe His Leu Arg Ala His Ala
65           70           75           80
Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile
          85           90           95
Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
          100           105

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```

<210> 170
<211> 108
<212> PRT
<213> Mus musculus

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<400> 170
Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1           5           10           15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
          20           25           30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
          35           40           45
Gly Ile Phe Ile Ile Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
          50           55           60
Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala
65           70           75           80
Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile
          85           90           95
Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
          100           105

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<210> 171
<211> 108
<212> PRT
<213> Bos tarus

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<400> 171
Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1           5           10           15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
          20           25           30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
          35           40           45
Gly Ile Phe Ile Ile Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
          50           55           60
Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala
65           70           75           80

```

Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile  
                     85                    90                    95  
 Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe  
                     100                    105

<210> 172  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 172  
 Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro  
   1                    5                    10                    15  
 Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr  
                     20                    25                    30  
 Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu  
                     35                    40                    45  
 Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys  
   50                    55                    60  
 Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala  
 65                    70                    75                    80  
 Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile  
                     85                    90                    95  
 Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe  
                     100                    105

<210> 173  
 <211> 108  
 <212> PRT  
 <213> Mus musculus

<400> 173  
 Glu Trp Val Met Pro Pro Ile Phe Val Pro Glu Asn Gly Lys Gly Pro  
   1                    5                    10                    15  
 Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Gly Thr  
                     20                    25                    30  
 Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu  
                     35                    40                    45  
 Gly Val Phe Thr Ile Glu Lys Glu Ser Gly Trp Leu Leu Leu His Met  
   50                    55                    60  
 Pro Leu Asp Arg Glu Lys Ile Val Lys Tyr Glu Leu Tyr Gly His Ala  
 65                    70                    75                    80  
 Val Ser Glu Asn Gly Ala Ser Val Glu Glu Pro Met Asn Ile Ser Ile  
                     85                    90                    95  
 Ile Val Thr Asp Gln Asn Asp Asn Lys Pro Lys Phe  
                     100                    105

<210> 174  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 174

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Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Pro
 1           5           10           15
Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys Glu Gly
      20           25           30
Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro Pro Val
      35           40           45
Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val Thr Glu
      50           55           60
Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser His Ala
65           70           75           80
Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile Leu Ile
      85           90           95
Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe
      100           105

```

&lt;210&gt; 175

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 175

```

Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Glu
 1           5           10           15
Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Arg Asp Lys Glu Thr
      20           25           30
Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Lys Pro Pro Val
      35           40           45
Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val Thr Gln
      50           55           60
Pro Leu Asp Arg Glu Ala Ile Ala Lys Tyr Ile Leu Tyr Ser His Ala
65           70           75           80
Val Ser Ser Asn Gly Glu Ala Val Glu Asp Pro Met Glu Ile Val Ile
      85           90           95
Thr Val Thr Asp Gln Asn Asp Asn Arg Pro Glu Phe
      100           105

```

&lt;210&gt; 176

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

```

Asp Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro
 1           5           10           15
Phe Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile
      20           25           30
Pro Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met
      35           40           45
Glu Val Phe Ser Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg
      50           55           60

```



Pro Met Asp Arg Glu Glu His Ala Ser Tyr His Leu Arg Ala His Ala  
 65 70 75 80  
 Val Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile  
 85 90 95  
 Tyr Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe  
 100 105

<210> 177  
 <211> 108  
 <212> PRT  
 <213> Mus musculus

<400> 177  
 Asp Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro  
 1 5 10 15  
 Phe Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile  
 20 25 30  
 Pro Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met  
 35 40 45  
 Glu Val Phe Asn Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg  
 50 55 60  
 Pro Met Asp Arg Glu Glu Arg Ala Ser Tyr His Leu Arg Ala His Ala  
 65 70 75 80  
 Val Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile  
 85 90 95  
 Tyr Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe  
 100 105

<210> 178  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> calcium binding motif

<220>  
 <221> VARIANT  
 <222> 1,3  
 <223> Xaa = any amino acid

<400> 178  
 Xaa Asp Xaa Glu  
 1

<210> 179  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> calcium binding motif

<400> 179

Asp Val Asn Glu

1